

Appl. No. : 10/770,712
Filed : February 3, 2004

REMARKS

In response to the Notice to File Corrected Application Papers mailed on May 11, 2004, a sequence listing is being submitted herewith. Further, the specification has been amended to add the sequence identification numbers to each nucleic acid sequence or amino acid sequence. Paragraphs 68, 78, 122, and 136 have been amended to add sequence identification numbers.

Additionally, Figure 5 has been amended to add sequence identification numbers 1-3. The figure description of Figure 5 (Paragraph 15) has also been amended to list the sequence identification numbers. No new matter is being added by this amendment.

The Examiner also requested submission of replacement drawings for Figures 7-12. Accordingly, Figures 7-12 of publication-quality are submitted herewith.

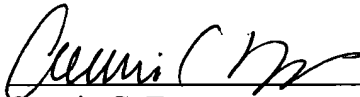
Conclusion

Should there be any questions concerning this application, the Examiner is invited to contact the undersigned at the telephone number appearing below.

Respectfully submitted,

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Dated: July 1, 2004

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Dipeptidyl Peptidase IV during Intestinal Differentiation

SEQ ID NO:1
SEQ ID NO:2
SEQ ID NO:3

10 20 30 40 50 60 70 80 90 100
MKTFRVLLGAGAAATVLTITVYVLLNKKGDADADSRREYLTQYLKNTYRLKLYELRRTSDHELYTKQNNILVFNAGNGNSVTLNASTDFTCH
MKTFRVLLGAGAAATVLTITVYVLLNKKGDADADSRREYLTQYLKNTYRLKLYELRRTSDHELYTKQNNILVFNAGNGNSVTLNASTDFTCH
MKTFRVLLGAGAAATVLTITVYVLLNKKGDADADSRREYLTQYLKNTYRLKLYELRRTSDHELYTKQNNILVFNAGNGNSVTLNASTDFTCH
110 120 130 140 150 160 170 180 190 200
SANDY-SISPDGQPTLLNTHYKQWREHSTASDYIDLNKRLQTLNRIPIHNTQVNTSPVGHKALYVNNDIYVKIETPHLPARIITWZKEDIINQIT
SISDY-SVSDRLAVLLNTHYKQWREHSTASDYIDLNKRLQTLNRIPIHNTQVNTSPVGHKALYVNNDIYVKIETPHLPARIITWZKEDIINQIT
-----YHSVSDRLAVLLNTHYKQWREHSTASDYIDLNKRLQTLNRIPIHNTQVNTSPVGHKALYVNNDIYVKIETPHLPARIITWZKEDIINQIT
210 220 230 240 250 260 270 280 290 300
DNYENHVSALTSAIINBSPHGTALYAQFNDZVPLINISFYSDSBLQZPKXVWPYPKAGAVHPVAKTAVVHDSLSVTHALS IQITAPASHTIGDH
DNYENHVSALTSAIINBSPHGTALYAQFNDZVPLINISFYSDSBLQZPKXVWPYPKAGAVHPVAKTAVVHDSLSVTHALS IQITAPASHTIGDH
DNYENHVSALTSAIINBSPHGTALYAQFNDZVPLINISFYSDSBLQZPKXVWPYPKAGAVHPVAKTAVVHDSLSVTHALS IQITAPASHTIGDH
310 320 330 340 350 360 370 380 390 400
LCDVNAATQERISTQMLRIQKSYNDICQYDESSEGRNCLVARIHTEHSTQNVGRFTRPSEPHFTIDGNBPKLISNEGRRIQYQIDKND---CTP
LCDVNAATQERISTQMLRIQKSYNDICQYDESSEGRNCLVARIHTEHSTQNVGRFTRPSEPHFTIDGNBPKLISNEGRRIQYQIDKND---CTP
LCDVNAATQERISTQMLRIQKSYNDICQYDESSEGRNCLVARIHTEHSTQNVGRFTRPSEPHFTIDGNBPKLISNEGRRIQYQIDKND---CTP
410 420 430 440 450 460 470 480 490 500
ITKGEHVTGTEALTSDDTYLISNHRKQAPGGNLTNKLQISDTKYTCLSCEINPERCQYTSVSIKHAITYQDRCSGCPGLYTLNBSVNDKGLAYED
ITKGEHVTGTEALTSDDTYLISNHRKQAPGGNLTNKLQISDTKYTCLSCEINPERCQYTSVSIKHAITYQDRCSGCPGLYTLNBSVNDKGLAYED
ITKGEHVTGTEALTSDDTYLISNHRKQAPGGNLTNKLQISDTKYTCLSCEINPERCQYTSVSIKHAITYQDRCSGCPGLYTLNBSVNDKGLAYED
510 520 530 540 550 560 570 580 590 600
NSALDKMLQNVQNP SKKLDFTLLNHTKNTYQMLP PPHFDKSKKPLLDVYAGPCSOEADIVRRNLMAITYLASTENIYVASFDRGSGGTQGDKINHALNR
NSALDKMLQNVQNP SKKLDFTLLNHTKNTYQMLP PPHFDKSKKPLLDVYAGPCSOEADIVRRNLMAITYLASTENIYVASFDRGSGGTQGDKINHALNR
NSALDKMLQNVQNP SKKLDFTLLNHTKNTYQMLP PPHFDKSKKPLLDVYAGPCSOEADIVRRNLMAITYLASTENIYVASFDRGSGGTQGDKINHALNR
610 620 630 640 650 660 670 680 690 700
RLGEFEVEDQIEAARQF SKNGFYDNKRIALINGNSYGGYVTSNVLGSGSGVTFKCGIIVAPVSEHNEYTESVYTERYNGLPZPEDNIDHXRNSSTVMSRAENFK
RLGEFEVEDQIEAARQF SKNGFYDNKRIALINGNSYGGYVTSNVLGSGSGVTFKCGIIVAPVSEHNEYTESVYTERYNGLPZPEDNIDHXRNSSTVMSRAENFK
RLGEFEVEDQIEAARQF SKNGFYDNKRIALINGNSYGGYVTSNVLGSGSGVTFKCGIIVAPVSEHNEYTESVYTERYNGLPZPEDNIDHXRNSSTVMSRAENFK
710 720 730 740 750 760 770
QVEYLLIHGADDDNTHVQQAQISALVAVGVDFQAMNYTQDEHGIASSTAHQHITYTHMSHPTKQCPSLP
QVEYLLIHGADDDNTHVQQAQISALVAVGVDFQAMNYTQDEHGIASSTAHQHITYTHMSHPTKQCPSLP
QVEYLLIHGADDDNTHVQQAQISALVAVGVDFQAMNYTQDEHGIASSTAHQHITYTHMSHPTKQCPSLP

FIGURE 5

